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Approved For Release 2003/05/14 : CIA-RDP78B05171A000100020017-9

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1 July 1969

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MEMORANDUM FOR: Chief, Technical Services and Support Group, NPIC

SUBJECT: Software Requirements for the ☐ Stereo Comparator

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1. This memorandum is in response to your inquiry concerning the status of operational computer programs to support the ☐ High Precision Stereo Comparator (HPSC).

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2. The software programming requirements for the HPSC are of two basic types: (1) the control requirements for the internal operations of the machine, i.e. stereo tracking, optical alignments and etc., and (2) the coordinate data reduction to be performed externally by the central computer. At the present time it is estimated that HPSC will be delivered to ☐ during April 1970, T&E commencing about July 1970, and turned over to IEG for operational testing about mid-September 1970. The current status and planning for both of the software functions to meet the above estimated schedule is as follows:

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a. Internal Machine Requirements--The contract calls for all necessary software for operation of panoramic, strip, and frame photography to be delivered with the machine. Specifically the pan program is being designed to handle the KH-4b and the strip program ☐ At this time there are no known difficulties that will delay the delivery of these programs beyond the delivery date of the comparator although some debugging time may be anticipated during the initial installation. For all future camera systems ☐ IEG/PHD has accepted the responsibility of doing the necessary programming, soliciting the assistance of TSSG/APSD as appropriate. No provisions are being made to handle the KH-4a at this time. PHD is taking the necessary steps to become proficient on the HPSC ☐ DDP-516 computer. At this time no completion dates have been established ☐

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b. External Data Reduction--The HPSC will use the same logic for communicating with the central computer as the other on-line comparators within the Center and will therefore be able to make use of all existing operational programs. These are currently limited to monoscopic determinations of size and position.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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4. In summary, there does not appear to be any technical reasons for the software for the HPSC not being available  when the comparator is ready, and IEG/PHD feels there is not sufficient requirements for stereo mensuration on KH-4b to push completion of that program. As previously stated, the programs for other systems will be completed as per the attached tentative schedule.

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Projects & Programs Staff, TSSG, NPIC

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Attachments:  
As stated

CONCUR: \_\_\_\_\_  
Chief,  
Imagery Exploitation Group, NPIC

\_\_\_\_\_  
Date

\_\_\_\_\_  
Acting Chief,  
Production Services Group, NPIC

\_\_\_\_\_  
Date

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10 July 1969  
Date

9 July 69  
Date

Engineering Division, TSSG, NPIC  
(This time schedule is consistent with the DEED PERT  
In-house Installation Plan.)

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